HORMISDALLEN SCHOOLS' EXAMINATIONS BOARD

PRE-PLE SET I 2026

MATHEMATICS

Time Allowed: 2 hours 30 minutes

TOTAL MARK SCORED	

Random No.						Personal No.		

Candidate's Name: _____

Candidate's signature: _____

Branch: _____

Stream: _____

Read the following instructions carefully.

1. The paper has **two** sections **A** and **B**. Section A has 20 questions and section B has 12 questions.
2. Answer **all** questions. **All** answers to both Sections **A** and **B must** be written in the Spaces provided.
3. **All** answers must be written using a **blue or black ball-point pen or ink.** Any work done in pencil other than **graphs** and **diagrams** will not be marked.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do **not** fill anything in the boxes indicated **"For Examiners' Use Only"** and those Inside the question paper.

FOR EXAMINERS' USE ONLY		
QN.NO.	MARKS	INITIALS
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29– 30		
31-32		
Total		

HORMISDALLEN SCHOOLS EXAMINATION BOARD
HOSEB MTC 2026
10 SEP 2026
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P.O.BOX 30223, KAMPALA

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SECTION A: 40 MARKS

Answer all the questions in this section.
Questions 1 to 20 carry two marks each

1. **Work out:** 8÷ 4

2. Write **XCIV** in words.

3. Find the shaded percentage on the diagram below.

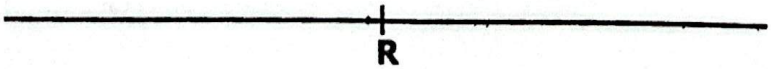


4. Express **2486** in scientific notation.

5. Find the next number in the sequence below.

   3 , 3 , 6 , 18 , _____

6. Construct an angle of **135^0** using a pair of compasses, a ruler and a pencil only at point **R** on the line below.



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7. Simplify: $6 + 4(r - 2)$.

8. Convert 14_{five} to base ten.

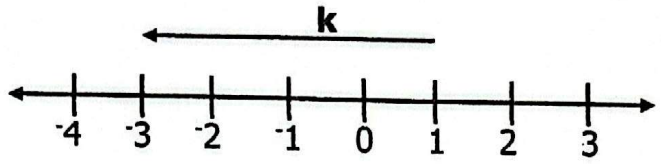
9. The area of a triangular plot of land is $72000cm^2$. Express the area as square metres.

10. A lesson that ended at 3:45pm lasted for 1 hour and 45 minutes. Find the time at which it started.

11. Given that set T={1, 4, 5, 6}, n(G) =7, G∩T= {1,4, 5, 6}. Using diagrams, show the relationship between set **T** and **G**.

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12. Write the integer represented by letter **K** on the number line below.



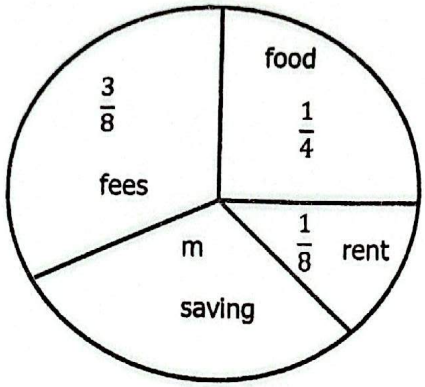
13. Workout the highest number of boys that can share **24** mangoes and **36** mangoes leaving no remainder.

14. Two angles $n + 40^0$ and $3n - 10^0$ are vertically opposite. Calculate the value of **n.**

15. Expand **6842** using values.

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16. The pie-chart below shows how James spends his monthly salary. Study it carefully and answer the question that follows.



Find the fraction of the money he saves.

17. After moving **40%** of his journey, Joel still had **75km** to cover. Find his total distance for the whole journey.

18. Find the square root of **196**.

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19. At Ruth's shop, a book costs **3** notes of each **sh.2000**. Tammy had a ten thousand shilling note, find the change he received after paying for the book.

20. Kenny was standing in a line of boys such that his position was the 19th from either side. How many boys were there?

SECTION B

21. Njeru had 3 digit-card numbered 6 , 9, 0.

a) Write the smallest and the largest 3-digit numbers formed. ***(2marks)***

b) Find the sum of all the remaining 3-digit numbers formed. ***(3marks)***

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22. a) Simplify: 2.4 − 3.8 + 4.26. *(3marks)*

b) Express 0.1212 as a common fraction in its lowest term. *(3marks)*

23. At Sankala village, the chair person LCI had some coffee seedings to share to farmers. He grouped the farmers in 9's but 3 seedlings remained, in 11's, 7 remained but in 13's only 6 seedlings remained. Find the possible least number of seedlings the chair person had. *(5marks)*

24. Three bells ring at intervals of 30 minutes, 40 minutes and 60 minutes for lower, middle and upper primary respectively. If they all ring together at 8:30am;

a) After how long will they ring together again? *(3marks)*

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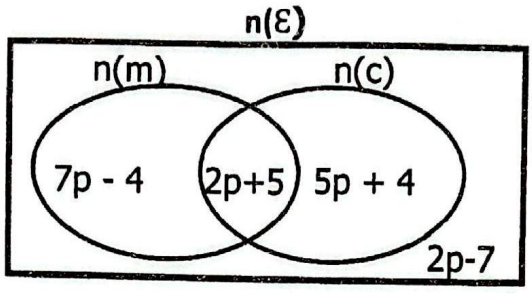
b) At what time will they ring together again? *(3marks)*

25. a) Using a pair of compasses, a ruler and a pencil only,construct a kite RSTK where $\overline{RT}$ = 8cm, $\overline{RK}$ = $\overline{TK}$ = 5cm and $\overline{KS}$ = 11cm. *(4marks)*

b) Measure $\overline{RS}$. *(1mark)*

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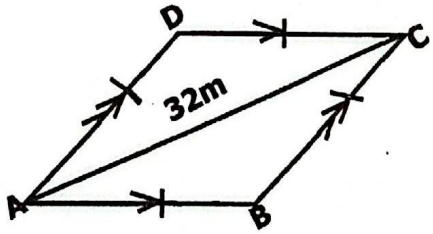
26. On a wedding ceremony, guests opted for meat (m), chicken (c) and others ate neither of the two dishes as shown on the Venn diagram below.



Given that the number of guests who ate chicken is equal to those who did not eat chicken at all, find the probability of getting a guest who ate both meat and chicken.

(5marks)

27. The distance around the garden below is 80 metres. If the longer diagonal AC is 32 metres;



a) Find the length of diagonal BD.

(3 marks)

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b) Calculate its area. *(2marks)*

28. Given the scale; 1:500,000, the actual distance from Jungo to Busi on the ground is 20km. Find the drawing length on a map in centimetres (cm) for the above distance. *(4marks)*

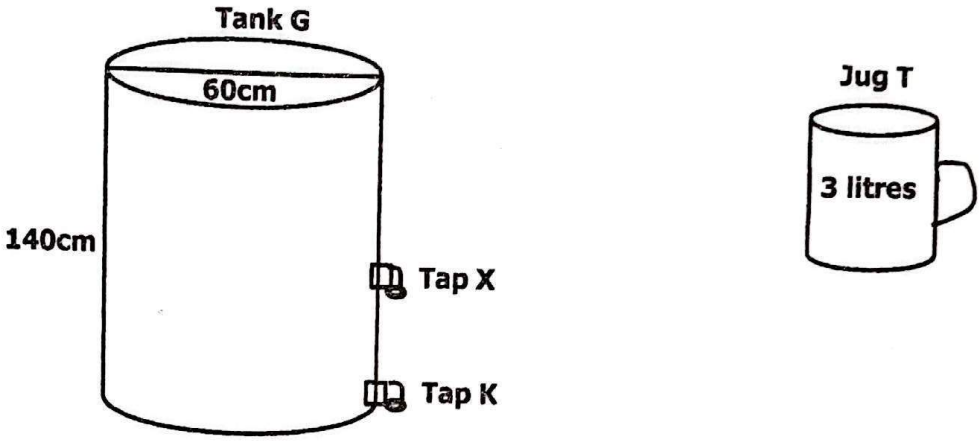
29. In a P.7 class, $\frac{7}{15}$ of the pupils are boys and the rest are girls. **60%** of the pupils are boarders and the remaining **24** pupils are day scholars.

a) Calculate the total number of pupils in the class. *(3marks)*

b) Determine how many girls are there in the class. *(2marks)*

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30. The figures below show tank **G** and jug T. Tank **G** was full of water to its capacity and some water was drawn using jug **T** through tap **X**.



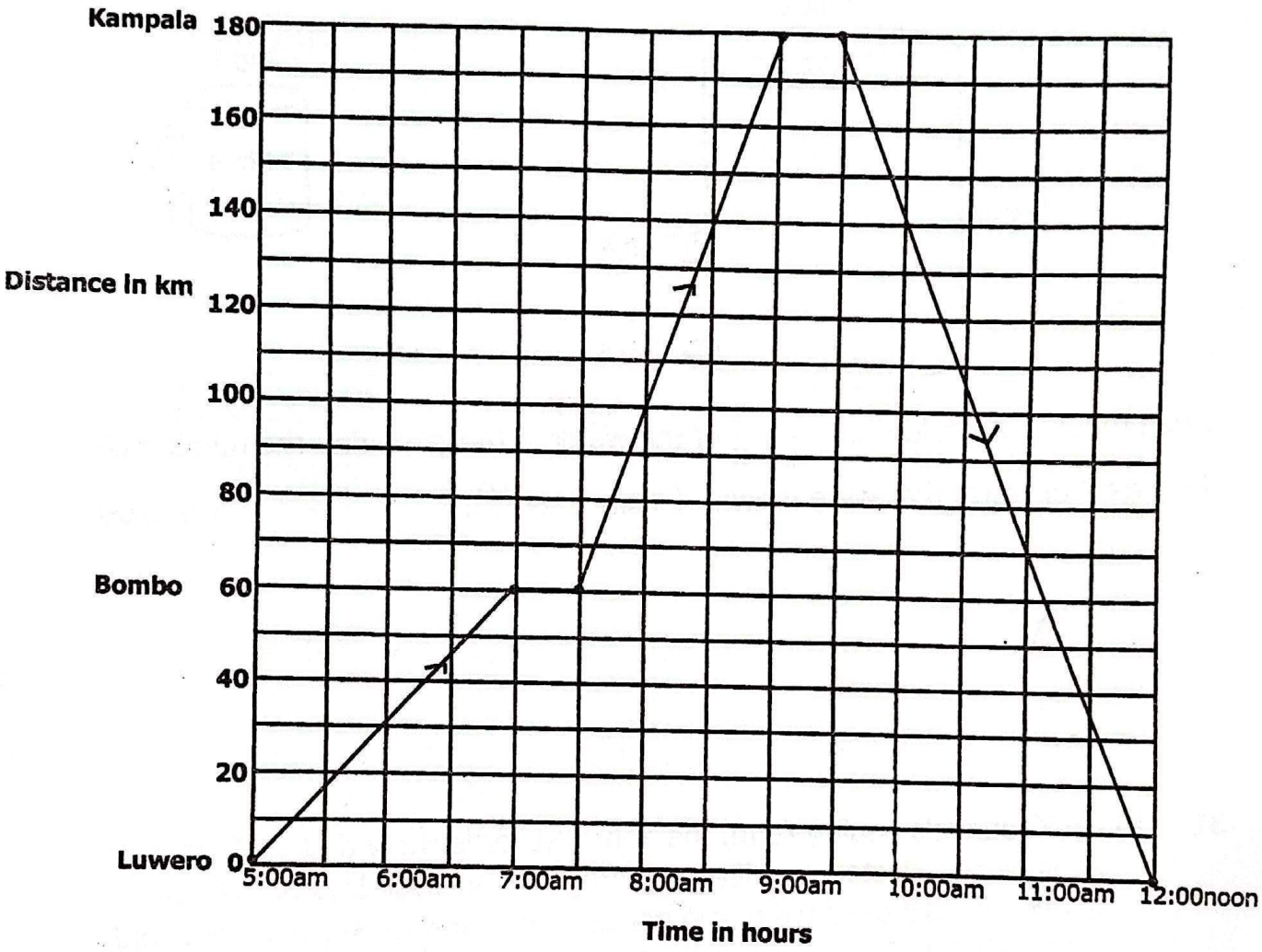
Given that tap **X** could draw only $\frac{2}{3}$ of the water in the tank, find the number of full jugs **T** of water that were drawn. $\left(Take\ \pi\ as\ \frac{22}{7}\right)$. ***(4marks)***

31. a) On Kabenge's poultry farm, the annual records show that **243** trays of eggs were collected per day on average in the **365** days of the year **2025**. If **233** trays were sold per day, how many trays were not sold the whole year? ***(3marks)***

b) Given that each tray of eggs was sold at **sh.9000**, find the amount of money the farm could make per day from the sales. ***(2marks)***

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32. The graph below shows the movement of a tax from Luwero to Kampala via Bombo and back to Luwero. Study it carefully and answer the questions that follow.



a) At what time did the taxi leave Luwero? *(1mark)*

b) How far is Kampala from Bombo? *(2marks)*

c) Find the average speed of the taxi on its return journey. *(2marks)*

END

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